

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	cant's or agent's file reference 4P/A599	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
	national application No. US03/05133	International filing date (day/month/year) 21 February 2003 (21.02.2003)		(Earliest) Priority Date (day/month/year) 22 February 2002 (22.02.2002)		
Applicant ARIZONA BOARD OF REGENTS						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of						
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
	contained in the international application in written form.					
		together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
2.	Certain claims were found unsearchable (See Box I).					
3.	Unity of invention is lacking (See Box II). With regard to the title, the text is approved as submitted by the applicant.					
4.						
		the applicant. I by this Authority to read as follows	i:			
5.	With regard to the abstract, the text is approved as subm	nitted by the applicant.				
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applic within one month from the date of mailing of this international search report, submit comments to this Authority					
6.	The figure of the drawings to be pul	blished with the abstract is Figure No	o. <u>1</u>			
	as suggested by the applicar	as suggested by the applicant. None of the figures				
	because the applicant failed	to suggest a figure.				
	because this figure better ch	aracterizes the invention.				

Form PCT/ISA/210 (first sheet) (July 1998)





Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A band pass filter (114) is formed on an integrated circuit (IC) chip (102). Such band pass filter (114) may be used in a RF or wireless communication device, such as a mobile phone or a personal data assistant (PDA). The band pass filter (114) includes a transformer (202 and 204) made of a pair of metallic spirals formed on the IC chip. The metallic spirals may have substantially square or rectangular overall shape, and may be fabricated using copper. The metallic spirals may be co-planar and inter-wound or may be stacked, one on the top of the other, and separated by a dielectric layer. The transformer (202 and 204) is capable of receiving an input signal, and providing high pass filtering to the input signal. The band pass filter (114) also includes a capacitor (226, 2;8,230 and 232) that is capable of receiving the input signal and providing low pass filtering in conjunction with an inductance of the transformer (202 and 204). The band pass tilter (114) provides band pass filtering through cascading the high pass and low pass filtering.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/05133

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H 01P 1/203 US CL : 156/250; 29/830; 257/259,E27.116. According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED	and the state of t					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 156/250; 29/830; 257/259,E27.116.						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search (USPAT, USPG, EPO, JPO, IBM, DERWENT) —						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category * Citation of document, with indication, where a	ppropriate, of the relevant passages Relevant to claim No.					
Y,P US 6,014,386 A (ABRAHAM), 11 January 2000 (1) column 9, lines 3-49, column 10, lines 39-49, column Y,P US 6,045,893 A (FUKUSHIMA et al), 4 April 200 column 4, lines 53-67.	nn 15, lines 25-57.					
Y,P US 5,949,299 A (HARDA), 7 September 1999 (07.0	09.1999), column 2, lines 8-52 1,11-13,22					
Further documents are listed in the continuation of Box C.	See patent family annex.					
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" earlier application or patent published on or after the international filling date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination					
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the	being obvious to a person skilled in the art "&" document member of the same patent family					
priority date claimed						
Date of the actual completion of the international search 19 May 2003 (19.05.2003)	Date of mailing of the international search report 0 1 AUG 2003					
Name and mailing address of the ISA/US	Authorized officer					
Mail Stop PCT, Attn: ISA/US	Heigh Ming Lee					
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Form PCT/ISA/210 (second sheet) (July 1998) Paralegal Specialis						
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